

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-35. (cancelled)

36. (previously presented) A clone stably transfected with a gene expressing wild-type human thyrotropin receptor and a reporter construct comprising cDNA of both

(i) a reactant capable of causing a measurable response when brought into contact with a corresponding substrate, and

(ii) a promoter containing cAMP response elements (CREs), comprising a promoter sequence or synthetic oligonucleotide which contains the CRE consensus sequence, TGACGTCA,

whereby cAMP levels vary with expression of the reactant; and wherein the promoter sequence or synthetic oligonucleotide is that for the glycoprotein hormone alpha subunit that contains a tandem repeat of the CRE consensus sequence, TGACGTCA.

37. (cancelled)

38. (previously presented) A clone according to claim 36, wherein the reactant enzyme is a luciferase and/or the substrate is luciferin.

39. (previously presented) Cells produced by a clone according to claim 36.

40. (previously presented) cDNA or mRNA stably transfected with a gene expressing wild-type human thyrotropin receptor and a reporter construct comprising cDNA of both

- (i) a reactant capable of causing a measurable response when brought into contact with a corresponding substrate, and ,
- (ii) a promoter containing cAMP response elements (CREs), comprising a promoter sequence or synthetic oligonucleotide which contains the CRE consensus sequence, TGACGTCA,

whereby cAMP levels vary with expression of the reactant; and wherein the promoter sequence or synthetic oligonucleotide is that for the glycoprotein hormone alpha subunit that contains a tandem repeat of the CRE consensus sequence, TGACGTCA.

41. (cancelled).

42. (currently amended) The cDNA or mRNA according to claim 40, wherein the reactant ~~enzyme~~ is a luciferase and/or the substrate is luciferin.

43. (cancelled).

44. (currently amended) [[A]] The clone according to claim 36, wherein the reactant is an enzyme.

45. (currently amended) [[A]] The cDNA or mRNA according to claim 40, wherein the reactant is an enzyme.

46. (new) The cDNA or mRNA according to claim 40, wherein the reactant is a luciferase and/or the substrate is luciferin.

47. (new) cDNA or mRNA transfected with a gene expressing wild-type human thyrotropin receptor and a reporter construct comprising cDNA of both

- (i) a reactant capable of causing a measurable response when brought into contact with a corresponding substrate, and
- (ii) a promoter containing cAMP response elements (CREs), comprising a promoter sequence or synthetic oligonucleotide which contains the CRE consensus sequence, TGACGTCA,

whereby cAMP levels vary with expression of the reactant; and wherein the promoter sequence or synthetic oligonucleotide is that for the glycoprotein hormone alpha subunit that contains a tandem repeat of the CRE consensus sequence, TGACGTCA.